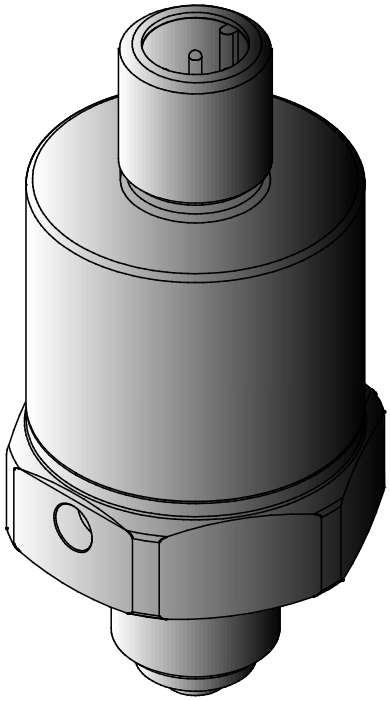
EN - English

Instructions for installation and operation

Pressure transducer METPOINT® PRM

SP61 / SP62



10-082

Dear customer,

Thank you for deciding in favour of the METPOINT® PRM SP61 / SP62 pressure transducer. Please read these installation and operating instructions carefully before mounting and starting up the pressure transducer and follow our directions.

Perfect functioning of the pressure transducer can only be guaranteed when the provisions and notes stipulated here are strictly adhered to.

Contents

1 Pictograms and symbols

Observe the installation and operating instructions

General advice

Observe the installation and operating instructions
(on the type plate)

General danger symbol danger, warning, caution)

Use protective gloves

2 Signal words

Danger! Imminent hazard
Consequences of non-observance: serious injury or death

Warning! Potential hazard
Consequences of non-observance: possible serious injury or death

Caution! Imminent hazard
Consequences of non-observance: possible injury or property damage

Notice! Potential hazard
Consequences of non-observance: possible injury or property damage

Important! Additional advice, info, hints
Consequences of non-observance: disadvantages during operation and maintenance, no danger

3 General information

Warning!

Risk of injury when used incorrectly!

Prior to the mounting, start-up, and operation of the pressure transducer, it must be ensured that the device was correctly chosen with regard to the measuring range, design and specific measurement conditions. In the event of non-observance, severe personal injury and/or damage to materials may occur.

Warning!

Risk of injury in the event of insufficient qualifications!

Improper use can lead to significant personal injury and material damage. All of the activities described in these operating instructions must only be carried out by qualified personnel with the qualifications described hereinafter.

Qualified personnel

Due to the specific training and knowledge concerning the measuring and control technology, and due to their experience and knowledge of the country-specific provisions, standards in force and directives, qualified personnel are capable of carrying out the described work and of independently identifying the possible risks.

Special employment conditions require further corresponding knowledge, e.g. regarding aggressive media.

Please check, prior to reading the operating instructions, whether or not these instructions correspond to the device. Read these installation and operating instructions carefully prior to any intervention regarding the METPOINT® PRM. The operating instructions must be accessible at all times at the place of application of the device.

If you have any queries regarding these instructions, please contact BEKO TECHNOLOGIES.

Installation works must exclusively be carried out by authorised and qualified personnel. Prior to undertaking any measures, the qualified personnel shall read up on the device by carefully studying the operating instructions. The operator of the products is responsible for the adherence to these provisions. The respective directives in force apply to the qualification and expertise of the qualified personnel.

For safe operation, the device must only be installed and operated in accordance with the indications in the operating instructions. In addition, the national and operational statutory provisions and safety regulations, as well as the accident prevention regulations required for the respective case of application, need to be observed during employment. This applies accordingly when accessories are used.

4 Safety instructions

Danger!

Compressed air!

Risk of serious injury or death through contact with quickly or suddenly escaping compressed air or through bursting plant components.

Measures

- Do not exceed the max. operating pressure (see type plate)!
- Only use pressure-resistant installation material!
- Make sure that no persons or objects can be hit by emerging compressed air!

Danger!

Inadmissible operating parameters!

Under-running or exceeding the limit values involves risks for persons and the material, and malfunction and service failures may occur.

Measures

- Make sure that the pressure transducer is operated only within the permissible limit values that are indicated on the type plate and in the technical data.
- Exact compliance with the performance data of the pressure transducer in connection with the case of application.
- Carry out service and calibration measures at regular intervals.

Further safety advice

- During installation and operation, the national regulations and safety instructions in force also need to be observed.
- The pressure transducer must not be employed in hazardous areas.

Additional instructions

- Do not overheat the device!
- The pressure transducer must not be disassembled!

Caution!

Damage possible!

Using the pressure transducer with corrosive media involves the risk of premature technical failure.

Measures

- Only use the device with the media that are listed in the data sheet and in the technical data.

Note:

The resistance at the double permissible max. operating pressure is confirmed.
For further information, please refer to the enclosed technical data sheet.

5 Proper use

The **METPOINT® PRM** pressure transducer detects the relative pressure (gauge pressure) in **gaseous** and **liquid** media and transforms this measured value into a linear output signal 4 … 20 mA or 0 … 10 V.

Pressure transducers transform the physical pressure into a **pressure-proportional** electrical signal. Depending on the version, there are different measuring principles which form the basis of the pressure monitoring.

The **METPOINT® PRM** pressure transducer is exclusively designed and constructed for the proper application purpose that is described herein and must be used correspondingly.

A check in order to ascertain whether or not the device is suitable for the chosen employment must be carried out by the user. It must be ensured that the medium is compatible with the components which come into contact with it. **The technical data listed in the data sheet are binding.**

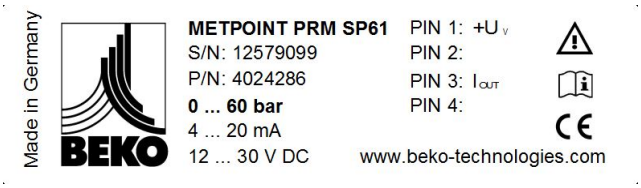
Improper handling or operation outside the technical specifications is impermissible. **Claims of any kind on the basis of improper use are excluded.**

6 Exclusion from the field of application

- The device is **not** suitable for use in hazardous areas.
- The device is **not** suitable for application with corrosive gases.
- Corrosive fluids must **not** be conducted through the pressure transducer.
- Improper handling or operation outside the technical specifications.

7 Type plate

The type plate is on the housing. It includes all the important data regarding the METPOINT® PRM pressure transducer which must be communicated to the manufacturer or supplier upon request.



METPOINT® PRM	Product designation
S/N:	Serial number
P/N:	Item number
0 … 60 bar	Measuring range
4 … 20 mA	Output signal
12 … 30 V DC	Supply voltage
PIN 1:	Power supply (U_V+)
PIN 2:	
PIN 3:	Current output (I_{out})
PIN 4:	

Note:
Never remove, damage, or obliterate the type plate!

8 Technical data

CE	
General indications	
Model designation	**PRM SP61 / PRM SP62**
Measuring principle	Stainless-steel thin film technology
Measured parameter	Overpressure (gauge pressure)
Output signal, type PRM SP61	**4 ... 20 mA**, analogue, 2-wire
Output signal, type PRM SP62	**0 ... 10 V**, analogue, 4 or 3-wire
Measuring range	**0 … 60 bar(g)**
Overload pressure limit	120 bar
Burst pressure	300 bar
Process medium [1]	Gases/fluids
Temperature-compensated range	0 … 60 °C
Reference conditions	EN 61298-1
Process connection (connection pin acc. to EM 837-1)	G¼ B
Weight	105 g
Service life	10 million load alterations
Degree of protection acc. to EN 60529 [2]	IP 67
Nonlinearity after limit point setting [3]	≤ ± 0.15% MBE [5]
Max. error of measurement [4]	**≤ ± 0.5% MBE [5]**

[1] **Process medium**

Compressed air, nitrogen, water, oil, and other fluids of group 2 according to Article 13, Clause 1.b of the PED 2014/68/EU. Group 2 comprises fluids which are **not** toxic, flammable, potentially explosive, and fire-promoting. The process medium must be compatible with the materials 1.4404 and 1.4548.

[2] The indicated degrees of protection according to EN 60529 only apply when connected, with a mating connector with a corresponding degree of protection.

[3] **Nonlinearity after the limit point setting, according to EN 61298-2**

As regards the **limit point setting,** the reference line passes through the initial and end point of the measured characteristic curve.

[4] **Max. error of measurement according to EN 61298-2**
including nonlinearity, hysteresis, non-repeatability, and error of measurement of the measuring range final value. Calibrated at a vertical installation position with a downward process connection.

[5] MBE = Measuring range final value.

Materials	
Sensor element (in contact with the medium)	1.4548
Process connection (in contact with the medium)	1.4404, EN 10272, EN 10088-3
Housing	1.4404, EN 10272, EN 10088-3
Mounting connector	CuZn, Au, PA, FKM / EPDM

Permissible temperature ranges	
Process-medium temperature	-40 … +85 °C
Ambient temperature during operation	-25 … +85 °C
Storage and transport temperature	-40 … +85 °C
Ambient humidity	+20 … +95 % relative humidity, non-condensing

Electrical specifications PRM SP61, PRM SP62		
Supply voltage [1] U_V		**12 ... 30 V DC**
Max. power consumption during nominal operation	**PRM SP61** (4 … 20 mA)	630 mW
	PRM SP62 (0 … 10 V)	300 mW
Current consumption [2, 3] during nominal operation	**PRM SP61** (4 … 20 mA)	Signal current, max. 21 mA
	PRM SP62 (0 … 10 V)	10 mA
Load (load resistance) R_L	**PRM SP61** (4 … 20 mA)	**R_L = 571 Ω at 24 V DC**
	PRM SP62 (0 … 10 V)	$R_L \geq 10$ kΩ
Resistance to short-circuiting		Permanent
Reverse voltage protection [4]		Available
Insulation resistance		> 100 MΩ at 500V DC
Voltage proof		500 V AC
Overvoltage arrester		36 DC

V AC = V alternating current
V DC = V direct current

[1] **The nominal value of the supply voltage is 24 V DC.**
Supply to the pressure transducer should be implemented with a stabilised, short-circuit-protected power supply that is protected against overvoltage.
The energy supply to the pressure transducer must come from a source with an **energy-limited electrical circuit** (10A max./ 30V max.) and a protective separation from the network. **See EN 61010-1, Clause 9.4**.

[2] The indications are related to nominal operation.

[3] The protection against excess current is realised via a resettable PTC fuse.

[4] Reverse voltage protection. In the event that the connections are interchanged, the sensor will not be damaged, but the sensor has no function.

Mechanical stresses	
Vibration resistance/vibrations according to EN 60068-2-6	25 … 2000 Hz, 20 g, sine
Mechanical shock resistance according to EN 60068-2-27	50 g, 11 ms, half-sine

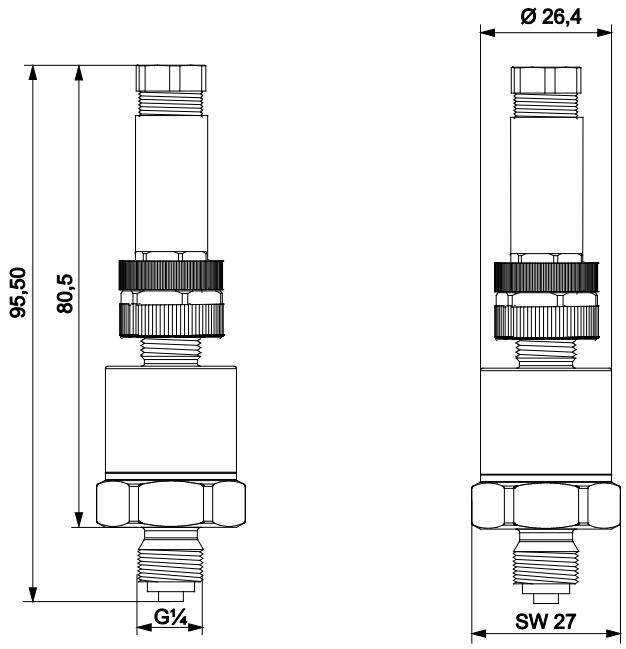
CE conformity	
Pressure Equipment Directive[1]	2014/68/EU
EMC Directive	2014/30/EU
EMC immunity to interference, **industrial field**	EN 61326-1 & EN 61326-2-3
EMC emitted interference (emission), **group 1, class B**	EN 61326-1
CE labelling according to the EMC Directive 2014/30/EU	

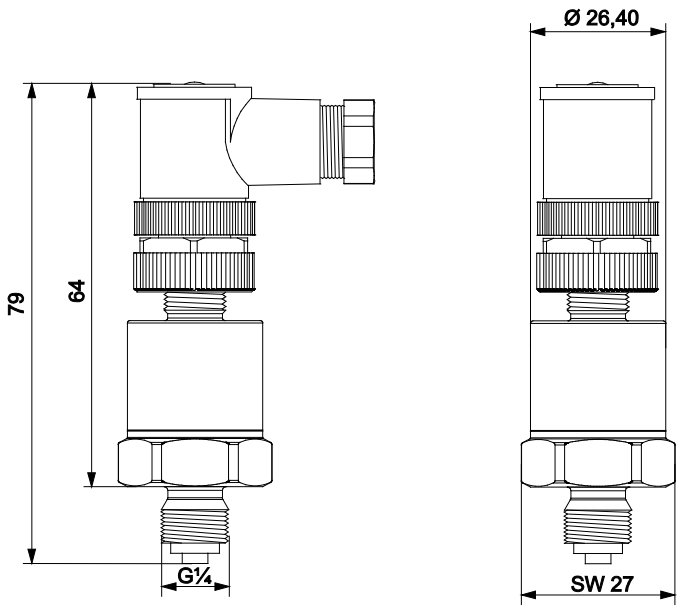
Electrical connections	
Connector (cable box) according to **EN 61076-2-101**	M12 x1 (4-pole)
Type of connection	Screw terminals
Wire cross-section	max. 0.75 mm^2 (AWG 18)
Grommet	4 … 6 mm
Degree of protection	IP 67 according to EN60529

[1] For gases and fluids of fluid group 2, the requirements according to Article 4, Clause 3 (good engineering practice) are met.

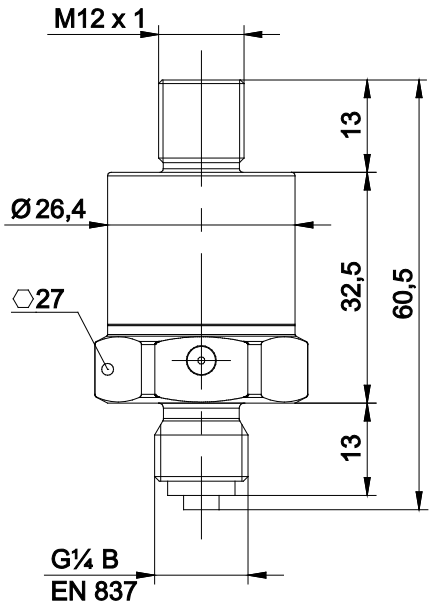
9 Dimension drawings

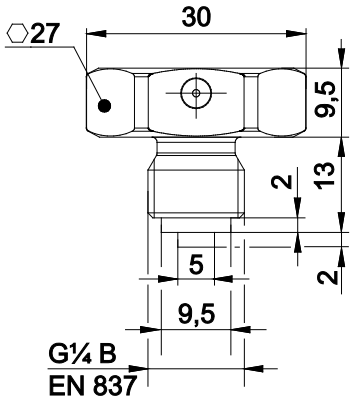
Dimensions PRM SP61, PRM SP62



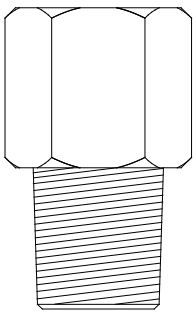


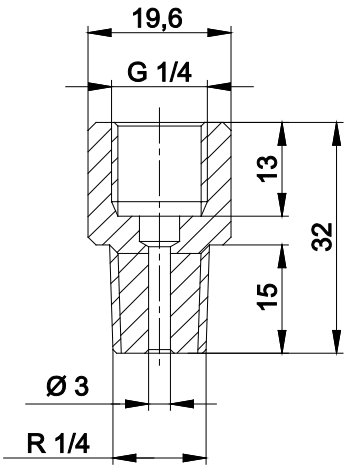
Dimensions and connections PRM SP61, PRM SP62

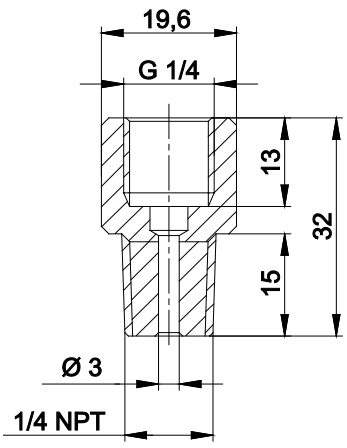




Connection adapter, R¼ and ¼ NPT, width A/F (German "Schlüsselweite") 27







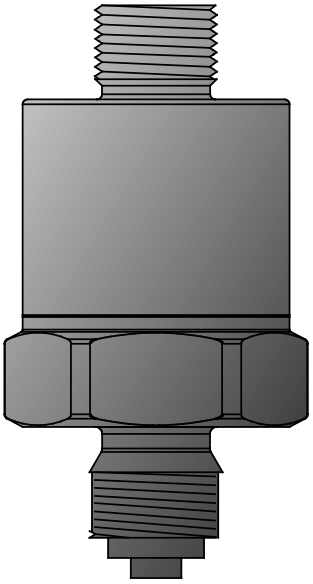
Standards for threads

Straight pipe thread (internal and external screw thread) for a non-sealing connection in the thread
Short symbol **G**, according to **ISO 228-1**

Tapered external pipe thread for a sealing connection in the thread
Short symbol **R**, according to **EN 10026-1**

Tapered external pipe thread for a sealing connection in the thread
Short symbol **NPT**, according to **ANSI/ASME B1.20.1**

10 Function



The **METPOINT®** pressure transducer of the PRM-SP series detects the relative pressure (gauge pressure) in **gaseous** and **liquid** media and transforms this measured value into a linear, pressure-proportional electrical output signal of 4 … 20 mA or 0 … 10 V.

As regards the **METPOINT® PRM**, sensors of the thin-film technology are employed.

The body and membrane consist of 1.4548 stainless-steel material. On the membrane side that faces away from the medium, insulation layers, **strain gauges**, compensating resistors, and conductors are applied with a combination of chemical and physical methods, and are photolithographically structured through etching. The layers of the resistors and electrical conductors applied on the sensor are considerably thinner than a micrometer and are, therefore, called **thin-film resistors**.

Due to the materials used, the **metal thin-film sensor** boasts very good resistance to many media and it is insensitive to shocks and vibration impacts.

Since the employed materials are easily weldable, the sensor is hermetically welded onto the pressure connection, without needing additional sealing material.

11 Installation

11.1 Installation instructions

Warning!

Risk of injury in the event of insufficient qualifications!

Improper use can lead to significant personal injury and material damage. All of the activities described in these operating instructions must only be carried out by qualified personnel with the qualifications described hereinafter.

Qualified personnel

Due to the specific training and knowledge concerning the measuring and control technology, and due to their experience and knowledge of the country-specific provisions, standards in force and directives, qualified personnel are capable of carrying out the described work and of independently identifying the possible risks.

Special employment conditions require further corresponding knowledge, e.g. regarding aggressive media.

Danger!

Compressed air!

Risk of serious injury or death through contact with quickly or suddenly escaping compressed air or through bursting and/or unsecured plant components.

Measures:

- **Only carry out installation works when the system is pressureless.**
- Only use pressure-resistant installation material.
- Do not exceed the max. operating pressure (see type plate).
- Check the installation point for tightness subsequent to installation.

Warning!

Risk of injury through temperature!

Risk of injury through the contact with very high or low temperatures.

Measures:

- Prior to installation or removal of the pressure transducer, carry out a temperature compensation or wear protective gloves.

Caution!

Malfunction at the pressure transducer!

Through incorrect installation, malfunctions may occur at the METPOINT® PRM pressure transducer. These can lead to incorrect measuring results and to misinterpretations.

Note:

It is imperative to observe all of the listed hazard and warning notes.

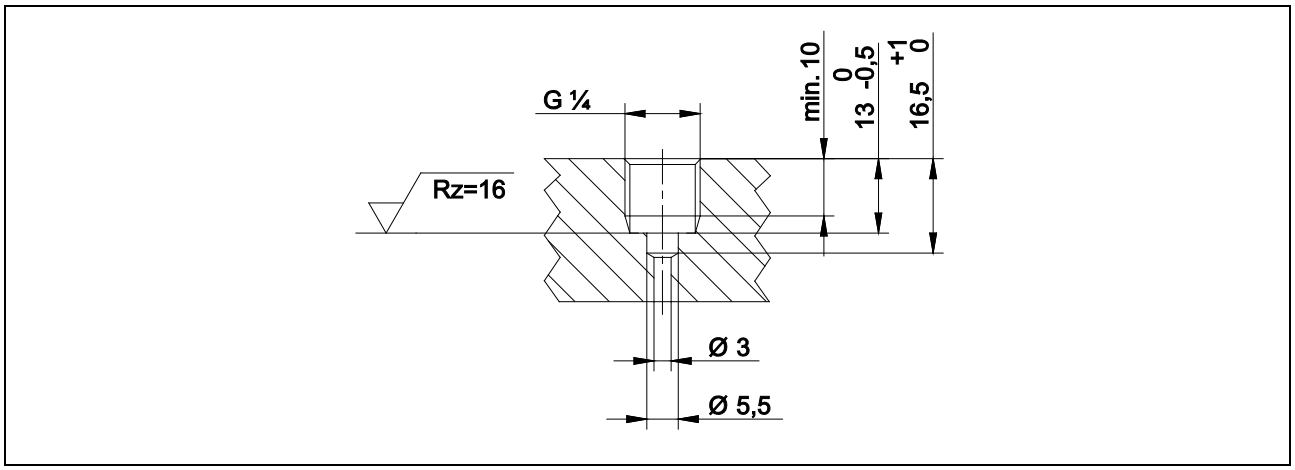
Please also observe all the provisions and instructions regarding the occupational safety and fire at the respective point of installation.

As a matter of principle, only use suitable tools and material in a proper condition.

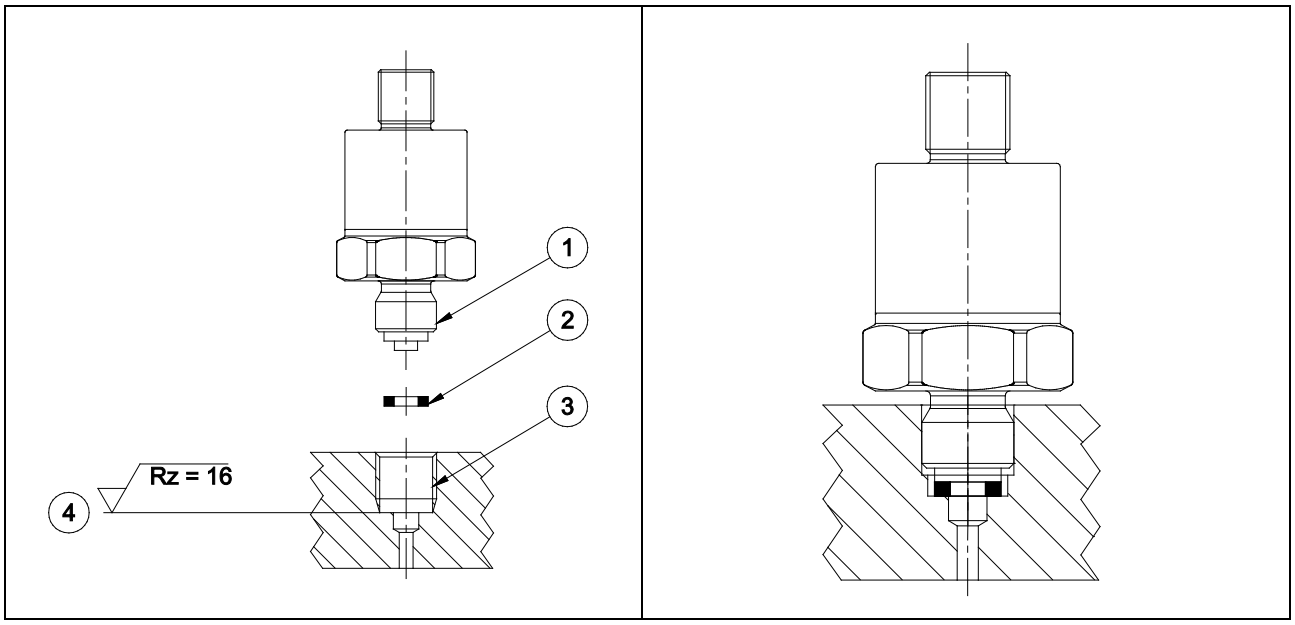
Bear in mind that condensates can contain aggressive and harmful components. Therefore, avoid contact with the skin.

11.2 Preparing the thread at the measurement point

In order to install the pressure transducer, a receiving thread is required at the measuring point. The latter must already show the following specifications or must be prepared correspondingly:



11.3 Installation example for connections in accordance with EN 837-1 with a cylindrical thread



In order to seal the process connection (1) with a cylindrical thread (3) at the sealing surface (4), flat gaskets (2) are employed.

Installation steps

- Use a suitable gasket for the sealing (2), e.g. a copper gasket, corresponding to the measuring medium and the pressure to be measured.
- The sealing surface (4) of the part to be received must have a perfect, clean, and undamaged surface.
- Manually screw the pressure transducer into the receiving thread.
- Do not twist the thread turns during the screwing-in.
- Only screw-in or unscrew the device via the spanner flats using a suitable tool, and with the specified torque. The correct torque depends on the dimension of the process connection and on the used gasket (shape/material). During the screwing-in or unscrewing, do not use the housing as a working surface.
- Subsequently, tighten the threaded-end fitting with the open-end spanner (for G¼" max. 20 Nm).

12 Electrical installation

The nominal value for the supply voltage for the electrical installation is 24 V DC.

Supply of the METPOINT® PRM SP61 / SP62 must be implemented with a stabilised, short-circuit-protected power supply that is protected against overvoltage. The energy supply must come from a source with an energy-limited electrical circuit (10 A max./ 30 V max.) and a protective separation from the network. **See also EN 61010-1, Clause 9.4.**

Prior to the installation and start-up, the maximum load resistance must be observed. With a nominal value of the supply voltage of **24 V DC**, the max. load resistance is 571 Ω. With a supply voltage that deviates from 24 V DC, the max. load resistance can be calculated according to the following formula:

$$\mathbf{R_L \leq (U_v - 12\ V) / 0.021\ A\ [\Omega]}$$

Warning!

Risk of injury in the event of insufficient qualifications!

Improper use can lead to significant personal injury and material damage. All of the activities described in these operating instructions must only be carried out by qualified personnel with the qualifications described hereinafter.

Qualified personnel

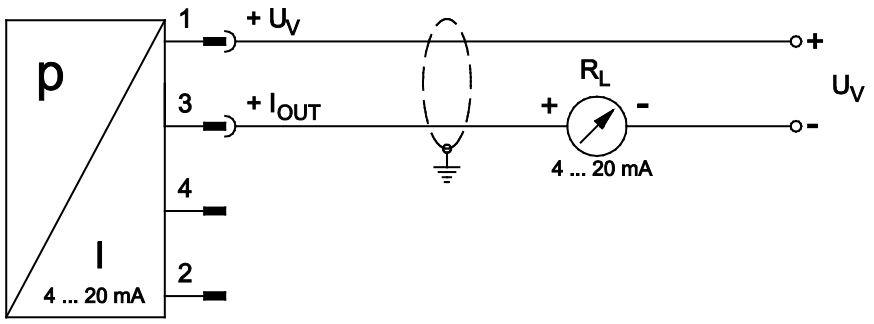
Due to the specific training and knowledge concerning the measuring and control technology, and due to their experience and knowledge of the country-specific provisions, standards in force, and directives, qualified personnel are capable of carrying out the described work and of independently identifying the possible risks.

Special employment conditions require further corresponding knowledge, e.g. regarding aggressive media.

12.1 Pin assignment PRM SP61, 2-wire system

Pin	Function	Description	Conductor colouring
PIN-1	$+U_V$	Positive (+) connection of the supply voltage	Brown
PIN-2		Not used	
PIN-3	I_{OUT}	Current output	Blue
PIN-4		Not used	

Connection diagram PRM SP61, 2-wire system, current output 4 … 20 mA



Notes:

The output of the current signal takes place at PIN 3 of the four-pole connector. The **METPOINT® PRM SP61** pressure transducers are supplied ex works with a current output of 4 … 20 mA. The following scaling was configured in the factory:

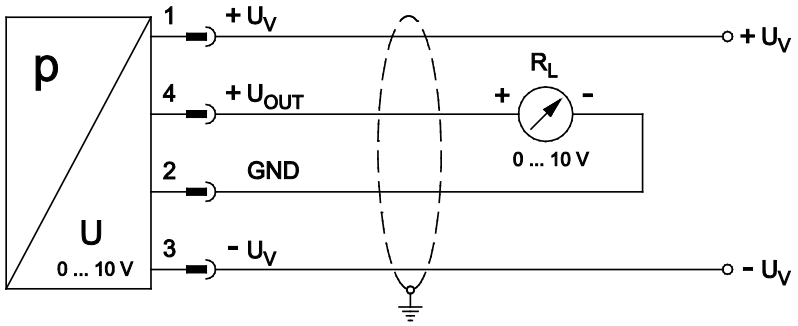
4 mA = 0 bar(g)

20 mA = 60 bar(g)

12.2 Pin assignment PRM SP62, 4-wire system

Pin	Function	Description	Conductor colouring
PIN-1	$+U_V$	Positive (+) connection of the supply voltage	Brown
PIN-2	GND	Analogue reference potential	Black
PIN-3	$-U_V$	Negative (-) connection of the supply voltage	Blue
PIN-4	$+U_{OUT}$	Positive (+) connection of the measuring signal	White

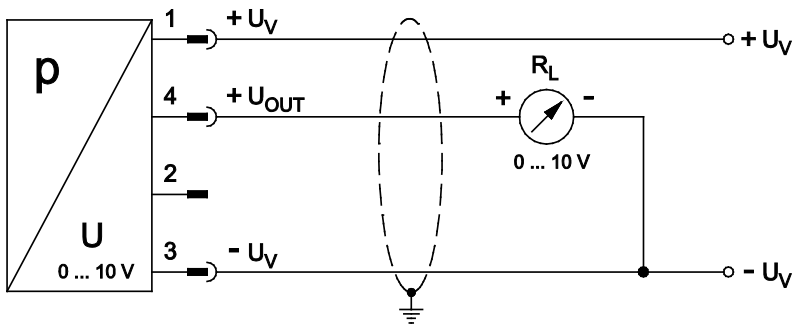
Connection diagram PRM SP62, 4-wire system, voltage output 0 … 10 V



12.3 Pin assignment PRM SP62, 3-wire system

Pin	Function	Description	Conductor colouring
PIN-1	$+U_V$	Positive (+) connection of the supply voltage	Brown
PIN-2		Not used	Black
PIN-3	$- U_V$	Negative (-) connection of the supply voltage	Blue
PIN-4	$+ U_{OUT}$	Positive (+) connection of the measuring signal	White

Connection diagram PRM SP62, 4-wire system, voltage output 0 … 10 V



Notes:

The output of the voltage signal takes place at PIN 4 of the four-pole M12 connector. The **METPOINT® PRM SP62** pressure transducers are supplied ex works with a voltage output of 0... 10 V. The following scaling was configured in the factory:

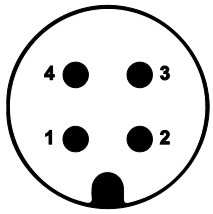
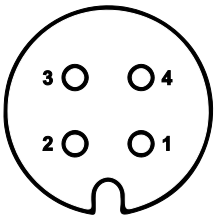
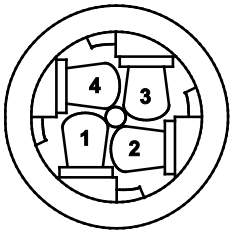
0 V = 0 bar(g)

10 V = 60 bar(g)

Electrical installation

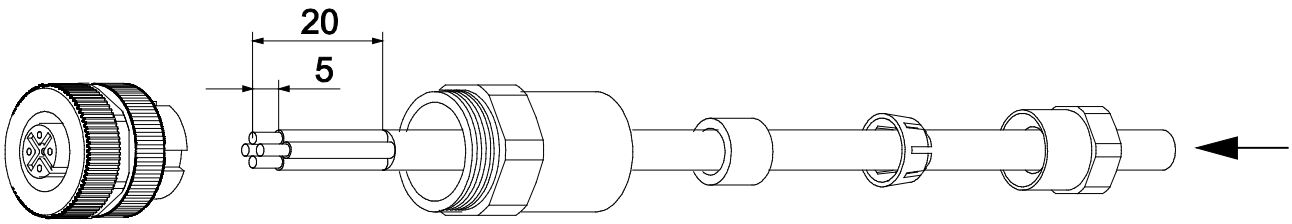
The following advice applies to all of the connections:

Shielding is implemented via the shield ring of the connector. The preconditions for proper shielding are that the respective connector is made of metal and that the shield has the shape of a braid. The shielding must be earthed at one end.

Connector, M12 x 1, 4-pole, a-coded		
Arrangement of the poles plug View transmitter side	Arrangement of the poles - female connector View female connector side	Arrangement of the poles female connector View screwing side
		

The cable must be assembled as follows:

1. Push the components of the plug connector over the cable
2. Cut the cable jacket by 20 mm in length
3. Cut the conductor sheath by 5 mm in length
4. Introduce the cable into the connector according to the pin assignment
5. Assemble/screw together the components of the connector



13 Maintenance and calibration

The perfect and safe functioning of the components requires calibration or adjustment at regular intervals.

The METPOINT® PRM SP61 / SP62 should be calibrated annually and re-adjusted, if required.

Danger!

Compressed air!

Risk of serious injury or death through contact with quickly or suddenly escaping compressed air or through bursting and/or unsecured plant components.

Measures:

- **Only carry out installation works when the system is pressureless and deactivated.**
- Only use pressure-resistant installation material.
- Make sure that no persons or objects can be hit by condensate or emerging compressed air.
- Check the tightness subsequent to maintenance measures.

Warning!

Risk of injury in the event of insufficient qualifications!

Improper use can lead to significant personal injury and material damage.

All of the activities described in these operating instructions must only be carried out by qualified personnel with the qualifications described hereinafter.

Qualified personnel

Due to the specific training and knowledge concerning the measuring and control technology, and due to their experience and knowledge of the country-specific provisions, standards in force and directives, qualified personnel are capable of carrying out the described work and of independently identifying the possible risks.

Special employment conditions require further corresponding knowledge, e.g. regarding aggressive media.

Warning!

Risk of injury through temperature!

Risk of injury through the contact with very high or low temperatures.

Measures:

- Prior to undertaking maintenance measures, carry out a temperature compensation or wear protective gloves.

Caution!

Damage possible!

Damage and malfunctions at the METPOINT® PRM pressure transducer may occur through incorrect maintenance and calibration or when maintenance and calibration measures are not undertaken at regular intervals.
These can lead to incorrect measuring results and to misinterpretations.

Measures:

- Carry out regular inspections and checks in accordance with the Pressure Equipment Directive (PED).

Maintenance and calibration

13.1 Cleaning/decontamination

Cleaning of the METPOINT® PRM SP61 / SP62 must be undertaken using a slightly damp (not wet) cotton cloth or one-way wipe, and mild, commercially available cleaner/soap.

For decontamination, spray the cleaner on an unused cotton cloth or one-way wipe and wipe the component comprehensively. Effectuate subsequent drying using a clean cloth or via air drying.

In addition, the local hygiene provisions need to be observed.

Danger!

Compressed air/reaction products!

Risk of serious injury or death through contact with quickly or suddenly escaping compressed air and through toxic, flammable, or potentially explosive reaction products.

Measures:

- **Only carry out cleaning measures when the system is pressureless.**
- Purge the respective plant component or pressure transducer prior to starting the maintenance works.
- Immediately clean the removed components from media residues.

Warning!

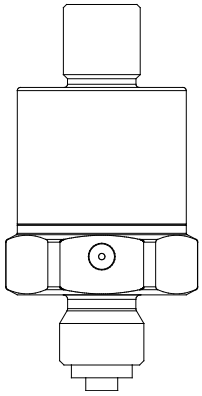
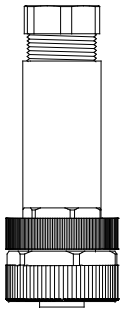
Damage possible!

A too high degree of humidity and hard and pointed objects cause damage to the pressure transducer and to the integrated electronic components.

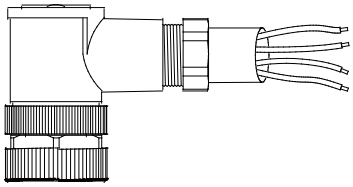
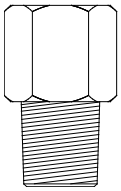
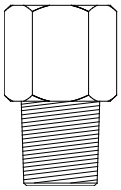
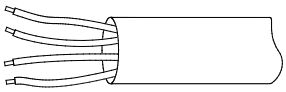
Measures

- Never clean with a soaked cloth.
- Do not use pointed or hard objects for cleaning.

14 Scope of delivery

Illustration	Description
	1 x pressure transducer METPOINT® PRM SP61 (0 … 60 bar) 4 … 20 mA or 1 x pressure transducer METPOINT® PRM SP62 (0 … 60 bar) 0 … 10 V
	1x M12 plug, straight
	1 x copper seal
Without illustration	1 x test record

15 Accessories

Description	Order no.
M12 connector, angle (incl. 5 m cable, pre-assembled) 	4025252
Connection adapter R ¼“, SW27 	4025381
Connection adapter NPT ¼“, SW27 	4025382
Copper seal 	4025383
Connecting cable 4 x 0.34 mm² (AWG 22) 	Upon request

16 Dismantling and disposal

When dismantling the PRM SP61 / SP62 pressure transducer, all related parts and operating media must be disposed of separately.

Waste code: **20 01 36**

Used electrical and electronic devices with the exception of those which come under 20 01 21, 20 01 23, and 20 01 35.

Warning!

Danger for persons and the environment!

The device must be disposed of in accordance with the European RoHS-2 2011/65/EU Directive.

Old appliances must not be disposed of with normal household waste!

Depending on the used medium, residues on the device may represent a danger to the operator or the environment. Therefore, undertake suitable protective measures and dispose of the device properly.

Measures:

- Immediately clean the removed components from media residues when suitable protective measures cannot be undertaken.

Warning!

Risk of injury!

Risk of injury through the contact with very high or low temperatures.

Measures:

- Prior to the removal of the PRM pressure transducer, wait for temperature compensation or wear protective gloves.

17 Trouble shooting and fault removal

Symptoms	Possible reasons	Measures
There is no signal. Output signal = 0 mA	Break of the signal line	Check the passage
There is no signal. Output signal = 0 mA	Incorrect wiring of the plug	Check the wiring. Observe the PIN assignment.
Deviation of the zero-point signal	Overload limit was exceeded	Replace the pressure transducer. Observe the permissible pressures.
Deviation of the zero-point signal	Operating temperature outside of the specification	Observe the permissible temperatures.
Output signal does not react to pressure changes	Overload through overpressure Operation outside of the specification	Replace the pressure transducer.
Output signal does not react to pressure changes	Load too high (load resistance) Supply voltage too low	Check the voltage. Check the resistance.

Caution!

In the event that the faults cannot be removed through the measures listed above, the pressure transformer needs to be removed from service. It must be ensured that pressure or a signal is no longer applied, and that the pressure transducer is protected against unintentional start-up.

Please contact the manufacturer.

18 Declaration of conformity

BEKO TECHNOLOGIES GMBH
Im Taubental 7
41468 Neuss, GERMANY
Tel: +49 2131 988-0
www.beko-technologies.com

EU-Konformitätserklärung

Wir erklären hiermit, dass die nachfolgend bezeichneten Produkte den Anforderungen der einschlägigen Richtlinien und technischen Normen entsprechen. Diese Erklärung bezieht sich nur auf die Produkte in dem Zustand, in dem sie von uns in Verkehr gebracht wurden. Nicht vom Hersteller angebrachte Teile und/oder nachträglich vorgenommene Eingriffe bleiben unberücksichtigt.

Produktbezeichnung:	**METPOINT® PRM**
Typ:	**PRM SP61, PRM SP62**
Messbereich:	0 … 60 bar relativ
Versorgungsspannung:	12 … 30 VDC
IP-Schutzart	IP67
Max. zulässiger Betriebsdruck:	60 bar
Min. / Max. Betriebstemperatur:	-40°C / +85°C
Datenblatt:	DB_PRM-807-0114-FP-A
Produktbeschreibung und Funktion:	Druckmessumformer für industrielle Anwendungen

Druckgeräte-Richtlinie 2014/68/EG
Die Produkte fallen in keine Druckgerätekategorie und sind gemäß Artikel 4 Absatz 3 in Übereinstimmung mit der in den Mitgliedstaaten geltenden guten Ingenieurspraxis ausgelegt und werden dieser entsprechend hergestellt.

EMV-Richtlinie 2014/30/EU
Angewandte harmonisierte Normen: EN 61326-1:2013, EN 61326-2-3:2013

ROHS II-Richtlinie 2011/65/EU
Die Vorschriften der Richtlinie 2011/65/EU zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten werden erfüllt.

Die Produkte sind mit dem abgebildeten Zeichen gekennzeichnet:

CE

Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller.

Neuss, 17.06.2016

Unterzeichnet für und im Namen von:
BEKO TECHNOLOGIES GMBH

i.V. Christian Riedel
Leiter Qualitätsmanagement International

CE_PRMSP61-833-0416-FP-B

BEKO TECHNOLOGIES GMBH
Im Taubental 7
41468 Neuss, GERMANY
Phone: +49 2131 988-0
www.beko-technologies.com

EU Declaration of Conformity

We hereby declare that the products indicated hereafter comply with the stipulations of the relevant directives and technical standards. This declaration only refers to products in the condition in which they have been placed into circulation. Parts which have not been installed by the manufacturer and/or modifications which have been implemented subsequently remain unconsidered.

Product designation:	**METPOINT® PRM**
Types:	**PRM SP61, PRM SP62**
Measuring range:	0 ... 60 bar(relative)
Supply voltage:	12 ... 30 VDC
Degree of protection	IP67
Max. permissible operating pressure:	60 bar
Min./max. operating temperature:	-40°C / +85°C
Data sheet:	DB_PRM-807-0114-FP-A
Product description and function:	Pressure transducer for industrial applications

Pressure Equipment Directive 2014/68/EC
These products do not fall into the scope of the pressure devices categories, and have been designed and manufactured according to sound engineering practice, applicable in the EU member states, in compliance with article 4, paragraph 3.

EMC Directive 2014/30/EU
Applied harmonized standards: EN 61326-1:2013, EN 61326-2-3:2013

RoHS II Directive 2011/65/EU
The products meet the requirements laid down in European Directive 2011/65/EU concerning the restriction of the use of certain hazardous substances in electrical and electronic devices.

The products bear the CE Mark:

CE

This Declaration of Conformity has been issued by the manufacturer.

Neuss, 17/06/2016

Signed:
BEKO TECHNOLOGIES GMBH

ppa Christian Riedel
Head of International Quality Management

CE_PRMSP61-833-0416-FP-B

Declaration of conformity

19 Index

BEKO TECHNOLOGIES GmbH

Im Taubental 7
D - 41468 Neuss
Tel. +49 2131 988 0
Fax +49 2131 988 900
info@beko-technologies.com
service-eu@beko-technologies.com

DE

BEKO TECHNOLOGIES LTD.

Unit 11-12 Moons Park
Burnt Meadow Road
North Moons Moat
Redditch, Worcs, B98 9PA
Tel. +44 1527 575 778
info@beko-technologies.co.uk

GB

BEKO TECHNOLOGIES S.à.r.l.

Zone Industrielle
1 Rue des Frères Rémy
F - 57200 Sarreguemines
Tél. +33 387 283 800
info@beko-technologies.fr
service@beko-technologies.fr

FR

BEKO TECHNOLOGIES B.V.

Veenen 12
NL - 4703 RB Roosendaal
Tel. +31 165 320 300
benelux@beko-technologies.com
service-bnl@beko-technologies.com

NL

BEKO TECHNOLOGIES (Shanghai) Co. Ltd.

Rm.715 Building C, VANTONE Center
No.333 Suhong Rd.Minhang District
201106 Shanghai
Tel. +86 (21) 50815885
info.cn@beko-technologies.cn
service1@beko.cn

CN

BEKO TECHNOLOGIES s.r.o.

Na Pankraci 58
CZ - 140 00 Praha 4
Tel. +420 24 14 14 717 /
+420 24 14 09 333
info@beko-technologies.cz

CZ

BEKO Tecnológica España S.L.

Torruella i Urpina 37-42, nave 6
E - 08758 Cervelló
Tel. +34 93 632 76 68
Mobil +34 610 780 639
info.es@beko-technologies.es

ES

BEKO TECHNOLOGIES LIMITED

Room 2608B, Skyline Tower,
No. 39 Wang Kwong Road
Kwoloon Bay Kwoloon, Hong Kong
Tel. +852 2321 0192
Raymond.Low@beko-technologies.com

HK

BEKO TECHNOLOGIES INDIA Pvt. Ltd.

Plot No.43/1 CIEEP Gandhi Nagar
Balanagar Hyderabad
IN - 500 037
Tel. +91 40 23080275 /
+91 40 23081107
Madhusudan.Masur@bekoindia.com
service@bekoindia.com

IN

BEKO TECHNOLOGIES S.r.l

Via Peano 86/88
I - 10040 Leini (TO)
Tel. +39 011 4500 576
Fax +39 0114 500 578
info.it@beko-technologies.com
service.it@beko-technologies.com

IT

BEKO TECHNOLOGIES K.K

KEIHIN THINK Building 8 Floor
1-1 Minamiwatarida-machi
Kawasaki-ku, Kawasaki-shi
JP - 210-0855
Tel. +81 44 328 76 01
info@beko-technologies.jp

JP

BEKO TECHNOLOGIES Sp. z o.o.

ul. Pańska 73
PL - 00-834 Warszawa
Tel. +48 22 314 75 40
info.pl@beko-technologies.pl

PL

BEKO TECHNOLOGIES S. de R.L. de C.

BEKO Technologies, S de R.L. de C.V.
Blvd. Vito Alessio Robles 4602 Bodega 10
Zona Industrial
Saltillo, Coahuila, 25107
Mexico
Tel. +52(844) 218-1979
informacion@beko-technologies.com

MX

BEKO TECHNOLOGIES CORP.

900 Great Southwest Pkwy SW
US - Atlanta, GA 30336
Tel. +1 404 924-6900
Fax +1 (404) 629-6666
beko@bekousa.com

US

www.beko-technologies.com

Original instructions in German.
metpoint_prm_sp61_sp62_manual_en_10-082_1501_v00.doc